

NCR 19-7508

012133



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

Deviation

SWA15A-2-OH
Job Sheet OH199890



Part No: SWA15A-2-OH

Job Qty: 1 pcs

Part Name: Electric Swivel 15,000 lb Safe Work Load (6,818 kg)



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 9/4/19

Job Tracking No:

Due Date: 10/23/19

Created By: Jennifer Renwick

Type: Rework - OH

Description: RA756/Order 18494/SN 13899-02

Note: DWG SWA15A Rev 12 IPP Rev. A 19.02.20 New Issue DP Verify DD

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup Hrs	Run Hrs	Workcenter / Supplier	Lead Time	
110	External Load - Issue SN	1 pcs	10/23/19		0.00	1.00	External Load - 1		OK 5211252
							External Load - 2		
							External Load - 3		
115	External Load - 2 - B4B	1 pcs	10/23/19		0.00	1.00	External Load - 1 - B4B		AP 2019/08/06 Muhl 2019-9-27
							External Load - 2 - B4B		
							External Load - 3 - B4B		
120	QC 5	1 pcs	10/23/19		0.00	0.00	QC 5 - 10		
							QC 5 - 12		
							QC 5 - 17		
							QC 5 - 18		
							QC 5 - 19		
							QC 5 - 22		
							QC 5 - 24		
							QC 5 - 3		
							QC 5 - 43		
							QC 5 - 49		
							QC 5 - 51		
							QC 5 - 58		
							QC 5 - 68		
							QC 5 - 9		
							QC 5 - 50		
							QC 5 - 30		
							QC 5 - 40		
							QC 5 - 61		

2019/09/27



Container No: S211252



Part: SWA15A-2

Job No: OH199890

Serial No/Batch: 13899-02

Revision: 1

Inspector:

Exp Date:

Instructions:

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

Date: 09/06/19

Plex 9/4/19 10:06 AM Dart.Renwick.Jennifer

DAS
30
9-09

SEP 10 2019

Date: 06/29/19

Instructions:
Exp Date:
Inspector:
Revision:

Part: SWA15A-2
Job No:
Serial No/Batch: 000000894



DART
AEROSPACE

1270 Aberdeen Street
Huntsburg, OH 45646
Canada
Tel: 1-813-632-8200
Email: sales@dartusa.com
www.dartaerospace.com

				QC 5 - 81		
130	Customer Acceptance	1 pcs	10/23/19	0.00 0.00		Jes. Renwick
140	Outsource - 2 - NDT per QSI038	1 pcs	10/23/19		SKY002-VC 5	2019-09-12
150	Packaging 2-1 - Receive - B4B	1 pcs	10/23/19	0.00 0.00	Packaging 2 - 1 - B4B	
					Packaging 2 - 2 - B4B	
					Packaging 2 - 3 - B4B	
					Packaging 2 - 5 - B4B	
					Packaging 2 - 4 - B4B	
					Packaging 2 - 6 - B4B	
					Packaging 2 - 7 - B4B	
					Packaging 2 - 8 - B4B	
					Packaging 2 - 9 - B4B	
					Packaging 2 - 10 - B4B	
					Packaging 2 - 11 - B4B	
					Packaging 2 - 12 - B4B	
					Packaging 2 - 13 - B4B	DP SEP 20 2019
					Packaging 2 - 14 - B4B	
					Packaging 2 - 15 - B4B	
					Packaging 2 - 16 - B4B	
					Packaging 2 - 17 - B4B	
					Packaging 2 - 18 - B4B	
					Packaging 2 - 19 - B4B	
					Packaging 2 - 20 - B4B	
					Packaging 2 - 21 - B4B	
					Packaging 2 - 22 - B4B	
					Packaging 2 - 23 - B4B	
					Packaging 2 - 24 - B4B	
					Packaging 2 - 25 - B4B	
					Packaging 2 - 26 - B4B	
					Packaging 2 - 27 - B4B	
					Packaging 2 - 28 - B4B	
					Packaging 2 - 29 - B4B	
					Packaging 2 - 30 - B4B	
					Packaging 2 - 31 - B4B	
					Packaging 2 - 32 -	
				Plex 9/4/19 10:06 AM Dart.Renwick.Jennifer		

					B4B	
					Packaging 2 - 33 - B4B	
					Packaging 2 - 34 - B4B	
					Packaging 2 - 35 - B4B	
					Packaging 2 - 36 - B4B	
160 QC 6	1 pcs	10/23/19	0.00	0.00	QC 6 - 9	
					QC 6 - 68	
					QC 6 - 61	DAS 81
					QC 6 - 40	SEP 20 2019
					QC 6 - 81	9-89
190 External Load - 4 - B4B	1 pcs	10/23/19	0.00	1.33	External Load - 1 - B4B	
					External Load - 2 - B4B	Michael 2019-9-27
					External Load - 3 - B4B	
195 QC 5	1 pcs	10/23/19	0.00	0.00	QC 5 - 10	
					QC 5 - 12	
					QC 5 - 17	
					QC 5 - 18	
					QC 5 - 19	
					QC 5 - 22	
					QC 5 - 24	
					QC 5 - 3	
					QC 5 - 43	
					QC 5 - 49	
					QC 5 - 51	
					QC 5 - 58	
					QC 5 - 68	
					QC 5 - 9	
					QC 5 - 50	DAS 30
					QC 5 - 30	SEP 27 2019
					QC 5 - 40	9-89
					QC 5 - 61	
200 Packaging 3-1 - Stock - B4B	1 pcs	10/23/19	0.00	0.00	Packaging 3 - 1 - B4B	
					Packaging 3 - 2 - B4B	
					Packaging 3 - 3 - B4B	
					Packaging 3 - 4 - B4B	
					Packaging 3 - 5 - B4B	
					Packaging 3 - 6 - B4B	
					Packaging 3 - 7 - B4B	
					Packaging 3 - 8 - B4B	DAS 30
					Packaging 3 - 9 - B4B	SEP 27 2019
					Packaging 3 - 10 - B4B	9-89
					Packaging 3 - 11 - B4B	
					Packaging 3 - 12 - B4B	
					Packaging 3 - 13 - B4B	

Plex 9/4/19 10:06 AM Dart.Renwick.Jennifer

				Packaging 3 - 14 - B4B	
				Packaging 3 - 15 - B4B	
				Packaging 3 - 16 - B4B	
				Packaging 3 - 17 - B4B	
				Packaging 3 - 18 - B4B	
				Packaging 3 - 19 - B4B	
				Packaging 3 - 20 - B4B	
				Packaging 3 - 21 - B4B	
				Packaging 3 - 22 - B4B	
				Packaging 3 - 23 - B4B	
				Packaging 3 - 24 - B4B	
				Packaging 3 - 25 - B4B	
				Packaging 3 - 26 - B4B	
				Packaging 3 - 27 - B4B	
				Packaging 3 - 28 - B4B	
				Packaging 3 - 29 - B4B	
				Packaging 3 - 30 - B4B	
				Packaging 3 - 31 - B4B	
				Packaging 3 - 32 - B4B	
				Packaging 3 - 33 - B4B	
				Packaging 3 - 34 - B4B	
				Packaging 3 - 35 - B4B	
				Packaging 3 - 36 - B4B	
210 DC - 1 - B4B	1 pcs	10/23/19	0.00 0.00	DC - 1 - B4B	DAG 21 SEP 27 2019
				DC - 2 - B4B	9-59
220 QC 21 - FG	1 pcs	10/23/19	0.00 0.00	QC 21 - FG - 21	DAG
				QC 21 - FG - 70	21
				QC 21 - FG - 53	9-59 SEP 27 2019

Part Op 110 - Issue S/N

- Descriptions: 115 - TEST ASSEMBLY. DISASSEMBLE ASSEMBLY. INSPECT DAMAGE PART.
120 - (QC5- Inspect part completeness to step on W/O)
140 - LIQUID PENETRANT INSPECTION AS PER QSI 038
150 - (Receive & Inspect for Damage & Mat'l Certs)
160 - (QC6- All purchased or subcontracted products) 1-Triage parts to be sent out for plating
190 - RE-ASSEMBLE. ***All assembly to be done in accordance with manual*** TEST ASSEMBLY.
195 - (QC5- Inspect part completeness to step on W/O)
200 - (Identify as per dwg & Stock Location:_____)

210 - Photocopy blue file and create labels
220 - (QC21- Final Inspection - Work Order Release)

Job BOM				
Part / Item	Component Name	Quantity	Operation	Container
SWA15A-2-AR	Electric Swivel 15,000 lb Safe Work Load (6,818 kg)	1 Ea (1 ea)	110-External Load - Issue SN	
01004-08-047	3/14 Type SJTOW Cable	6 ft (6 ea)	190-External Load - 4 - B4B	5179682
188-FPSS-1032-1/2	Set Screw	1 Ea (1 ea)	190-External Load - 4 - B4B	
188-FPSS-1032-3/8	Set Screw	1 Ea (1 ea)	190-External Load - 4 - B4B	
188-FPSS-1032-5/8	Set Screw	1 Ea (1 ea)	190-External Load - 4 - B4B	5037083
188-FSCS-1032-5/8	Flat socket cap Screw	4 Ea (4 ea)	190-External Load - 4 - B4B	5199362
600.1319	Up Decal	1 pcs (1 ea)	190-External Load - 4 - B4B	5173604
SWA10A-1100	Upper DU Bearing	1 pcs (1 ea)	190-External Load - 4 - B4B	5199378
SWA10A-1200	Lower DU Bearing	1 Ea (1 ea)	190-External Load - 4 - B4B	5062772
SWA10A-1300	Roller Thrust Bearing	1 Ea (1 ea)	190-External Load - 4 - B4B	5196381
SWA10A-1400	Circlip	1 Ea (1 ea)	190-External Load - 4 - B4B	5128726
SWA10A-400	Thrust Washer	1 pcs (1 ea)	190-External Load - 4 - B4B	5158399
SWA6A-1900	1/4" Female Spade Connector	4 Ea (4 ea)	190-External Load - 4 - B4B	5192706
SWA6A-2000	1/8" Female Spade Connector	4 Ea (4 ea)	190-External Load - 4 - B4B	5192706

Job Allocations				
Operation	Component Part	Required	Inventory	Allocated
110-External Load - Issue SN	SWA15A-2	1	0	0
190-External Load - 4 - B4B	01004-08-047	6	817	0
	188-FPSS-1032-1/2	1	35	0
	188-FPSS-1032-3/8	1	78	0
	188-FPSS-1032-5/8	1	254	0
	188-FSCS-1032-5/8	4	80	0
	600.1319	1	228	0
	SWA10A-1100	1	19	0
	SWA10A-1200	1	23	0
	SWA10A-1300	1	12	0
	SWA10A-1400	1	15	0
	SWA10A-400	1	10	0
	SWA6A-1900	4	90	0
	SWA6A-2000	4	567	0

Part Specifications				
Specifications could not be found.				

Lactik 242(5186572)
Lactik 620(5194792)
Def-T-ge (M138973)
Acrosshell grease NO.7 (M138724)
Silicone ge (5208124)

Plex 9/5/19 2:49 PM Dart.Renwick.Jennifer

Inspection Sheet Complete
RA756

Customer QA Ref #												
Part Number	Original Batch / Serial # / Ctrl #	Original Revision #	Quantity	Part Complete	Rev/CHG Current	New Paperwork	New Labels	Disposition	Original Container #	New (Receiving) Serial #	New Job #	Work order instructions
SWA15A-2	13899-02		1	☒ Yes	☐ Yes	☒ Yes	☒ Yes	CUSTOMER SUPPLIED		S210095	OH199890	Overhaul
0			0	☐ Yes	☐ Yes	☐ Yes	☐ Yes					
0			0	☐ Yes	☐ Yes	☐ Yes	☐ Yes					
0			0	☐ Yes	☐ Yes	☐ Yes	☐ Yes					
0			0	☐ Yes	☐ Yes	☐ Yes	☐ Yes					
0			0	☐ Yes	☐ Yes	☐ Yes	☐ Yes					

QC Approval: _____ 0

Date: 0-Jan-00 _____

Special Return/Rework Instructions:



DATE: 2019/09/05

N.D.T

MODEL: SWA15A

S/N : 13899-02

Job : OH199890

RA.# 756

ORDER : 18494

P/N	DESCRIPTION	QUANTITY
SWA15A-200	UPPER END	1
SWA15A-100	LOWER END	1
SWA10A-300	BEARING HOUSING	1
SWA10A-500	SEMI-RING	2
SWA10A-600	COLLAR	1

ALAIN PATRY

TOTAL : 6

Pre test

Work Order OH 199890

Customer RAY56 / order 18494

Number of Wires 2

Date 2019-9-05

Serial Number 13899-02

Number of Cycles	Load (Lbs.)	Action	Pass/Fail
1	15,000	Check for Conductivity against all wires.	Pass
1	15,000	Check all wires for grounding against swivel body.	Pass
1	10,000	Check for Conductivity against all wires.	Pass
1	10,000	Check all wires for grounding against swivel body.	Pass
1	5,000	Check for Conductivity against all wires.	Pass
1	5,000	Check all wires for grounding against swivel body.	Pass
1	0	Check for Conductivity against all wires.	Pass
1	0	Check all wires for grounding against swivel body.	Pass

Test Conducted By: Michel Lelonde

Signature: _____

Technician

QC 5 Small FAB / QA

Submit

RETURN AUTHORIZATION



RA #:

RA756

Date:

July 31, 2019

Attention:

Wage Pramudya Wibowo

E-mail:

wage@airfastindonesia.com>

From:

Jennifer Renwick

RETURN ADDRESS

☒ Hawkesbury Dart Aerospace Ltd 1270 Aberdeen Street Hawkesbury, ON K6A 1K7, CA 1-613-632-3336	☐ Vista Dart Aerospace Ltd. 3030 Enterprise Court, Suite A Vista, CA 92081-8347, US 1-760-724-5300	☐ Broussard Dart Aerospace Ltd. 105 Dairy Lane Broussard, LA 70518, US 1-337-839-0500
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SHIPPING

Courier:	FedEx
Account #:	270 376 118

COMMERCIAL INVOICE INFORMATION

Item #1		Item #2	
P/N:	SWA15A-2	P/N:	0
Special Return/Rework Instructions:	Swivel	Description:	0
Qty:	1	Qty:	0
Flown:	Yes	Flown:	0
Customs Value USD:	\$500	Customs Value USD:	\$0
Batch / Serial #	13899-02	Batch / Serial #	0
Item #3		Item #4	
P/N:	0	P/N:	0
Description:	0	Description:	0
Qty:	0	Qty:	0
Flown:	0	Flown:	0
Customs Value USD:	\$0	Customs Value USD:	\$0
Batch / Serial #	0	Batch / Serial #	0
Item #5		Item #6	
P/N:	0	P/N:	0
Description:	0	Description:	0
Qty:	0	Qty:	0
Flown:	0	Flown:	0
Customs Value USD:	\$0	Customs Value USD:	\$0
Batch / Serial #	0	Batch / Serial #	0

ADDITIONAL RETURN AUTHORIZATION INFORMATION

- Read the RA form, complete and sign it, and attach it to the outside of the shipment.
- Ensure the RA number is referenced on all documents. Failure to do so may result in delivery refusal.
- Ensure the shipment is directed to the correct facility referenced above. Failure to do so will result in delays and additional shipping costs.
- Commercial invoice must include the following statement: "Parts are aircraft parts being returned to the manufacturer."
- International shipments require commercial invoice attached to the outside of the box.
- Where applicable, the original Release Certificate, STC's, Installation Instructions, Maintenance Manual Supplement, Flight Manual Supplement, packing slips and removable tag must accompany the shipment.
- Return authorization expires in 30 days. If no charge products were supplied, these will be invoiced upon expiration of the RA.
- Returned items will be fully inspected by Quality Control and credit will be issued for items deemed to be new, un-flown, traceable and to the current revision.
- A 15% minimum restocking fee applies, additional fees may apply upon receipt and inspection if items require rework or cannot be returned to stock.
- Items should be adequately packaged to prevent shipping damage.
- For complete terms & conditions, visit www.dartaerospace.com

PART DISPOSITION (to be completed and returned by customer)

Reason for return: Due for Overhaul

H:\Forms\Quality Assurance\approved QA Online\RA revK

SPARE-PART

Delivery Note AF025702

AIRFAST Indonesia

Jl. Marsekal Suryadama No. 8
Neglasari - Tangerang
Banten - Indonesia 15129
Telp : (62-21) 5200696
Fax : (62-21) 5200731

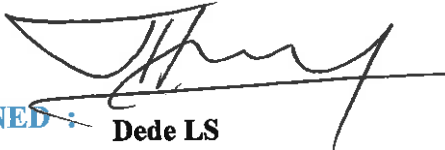
SHIP TO : DART AEROSPACE LTD
1270 ABERDEEN STREET
HAWKEYSBURY, ON K6A 1K7
CANADA - ONTARIO

Attn : LISA MC MACHEN
FROM : PT. Airfast Indonesia
Jalan Marsekal Suryadharma No.8, Neglasari Tangerang 15129

PAGE ...1..... OF1.....

Delivery Note No.	AF 025702
Date 31-Jul-19	
Our Order No. / Date	
Method of Despatch	
Freight Charges	
Special Instructions	
CURRENCY	

Item No.	GRN No.	Part Number	Description / S. No	Quantity		Price	
				Order	Ship	Unit	Total
1	U/S	SWA15A-2	SWIVEL WEIGHT 9,1 Kg S/N: 13899-02 / FA-0993 Ref to FR20190592	1	Ea		
Total Value							

SIGNED :  Dedede LS

Check & Approved : 

Received By :

DATE : 31-Jul-19

31-Jul-19

SPARE-PART

Delivery Note

AF025702

AIRFAST Indonesia

Jl. Marsekal Suryadama No. 8
Neglasari - Tangerang
Banten - Indonesia 15129
Telp : (62-21) 5200696
Fax : (62-21) 5200731

SHIP TO : DART AEROSPACE LTD
1270 ABERDEEN STREET
HAWKEYSBURY, ON K6A 1K7
CANADA - ONTARIO

Attn : LISA MC MACHEN
FROM : PT. Airfast Indonesia
Jalan Marsekal Suryadharma No.8, Neglasari Tangerang 15129

PAGE 1 OF 1

Delivery Note No.	AF 025702
Date	31-Jul-19
Our Order No. / Date	
Method of Despatch	
Freight Charges	
Special Instructions	

CURRENCY	
----------	--

Item No.	GRN No.	Part Number	Description / S. No	Quantity		Price	
				Order	Ship	Unit	Total
1	U/S	SWA15A-2	SWIVEL WEIGHT 9,1 Kg S/N: 13899-02 / FA-0993 Ref to FR20190592	1	Ea		

Total Value

SIGNED : Dede LS

Check & Approved :

Received By :

DATE : 31-Jul-19

31-Jul-19

REPAIR ORDER

TO:
DART AEROSPACE LTD
1270 ABERDEEN STREET
HAWKESBURY, ON K6A 1K7
ONTARIO
CANADA
Fax 1-246-420-7245

R.O. NUMBER: FR20190592
DATE: 31-JUL-2019

INVOICE TO:
P.T. Airfast Indonesia
Jl. Marsekal Suryadarma No. 8
Tangerang 15129 - Indonesia
ATTN/TAX ID:01.002.189.7.415.000
Attn Maria Yosefin
Tel 62-21-5200696
Fax 62-21-5202557

SHIP TO:
PT.AIRFAST INDONESIA
JL.MARSEKAL SURYADARMA NO.8
RT.004/007 KEL.NEGLASARI
KEC.NEGLASARI 15129
INDONESIA
ATTN INVENTORY SUPERVISOR
TEL 62-21-5200696 FAX 62-21-5200731

ITEM	CONTROL NUMBER PART NUMBER WORK REQUIRED / REMARKS	DESCRIPTION SERIAL NUMBER	COST
001	FA-0993 SWA15A-2	SWIVEL, WEIGHT 9.1 KG 13899-02	0.00

TOTAL USD 0.00

AIRFAST SN : AI-2300
EX : TIM STORE
REMARKS : DUE FOR OVERHAUL
WORKSCOPE : PLEASE INSPECT AND PERFORM OVERHAUL ACCORDINGLY

ACC# 03720-592

IT IS A CONDITION OF THIS PURCHASE/REPAIR ORDER THAT INVOICES MUST BE SUBMITTED TO AIRFAST NO LATER THAN 3 MONTHS FOLLOWING THE DATE OF DELIVERY OF THE GOODS OR SERVICES. AIRFAST WILL NOT ACCEPT RESPONSIBILITY FOR PAYMENT OF INVOICES SUBMITTED LATER THAN 3 MONTHS.
Please email shipping details to heru@airfastindonesia.com

PURCHASING CONTACT
Inventory Supervisor
TEL 62-21-5400233
Fax 62-21-5400230

AUTHORIZED BY:

This is a computer-generated document and no signature
is required if a name is printed after AUTHORIZED BY.

PACKING LIST

No. AF/0202/08/2019

Date:

8-Aug-19

Shipper :

PT AIRFAST INDONESIA

JL. Marsekal Suryadarma No. 8

Neglasari, Tangerang 15129, Banten

Indonesia

Phone : +62 21 5200696

Fax : +62 21 5202557

Attn : Export - Import

Consignee :

DART AEROSPACE

1270 Aberdeen Street

Hawkesbury, ON K6A 1K7

Canada

Phone : +1 613 632 3336

Fax :

Attn : Jennifer Renwick

Delivery Mode

Airfreight

Port of Loading

Tangerang, Indonesia

Port of Destination

Ontario, Canada

DN No.

AF025702

Shipment Detail :

Civil Aircraft Part

Repair Return Shipment

AWB Number :

7759 5619 2719

Forwarder Name :

FedEx

Total Package (s)

1

Volume Weight (Kg)

4.9

Gross Weight (Kg)

10.0

ITEM	P/N & S/N	DESCRIPTION	QTY UoM	REF	Dimension (Cm)			Vol Wt (KG)	Gross Wt (KG)
					L	W	H		
1	PN : SWA15A-2 SN : 13S99-02	Swivel	1 EA	FR20190592	38	25	26	4.9	10.0

Merchandise original :

Manufacture by :

Transshipped / re-export

Tjatur Heru Hudojono

Assistance Purchasing Manager

I, We hereby declare that I am / We are the shipper of the merchandise listed above and that all the particulars given are true, and undertake, if required, to furnish supporting evidence.



ORIGIN ID:RKOA 62215200686
EXPORT - IMPORT / NOVIAN KRISTANTO
AIRFAST INDONESIA
JL. MARSEKAL SURYADARMAS NO.8
TANGERANG 15129
INDONESIA ID

SHIP DATE: 12AUG19
ACTWGT: 10.00 KG
CAP: 110573864ANET4161
DIM3: 38x23x20 CM

BILL SENDER

TO JENNIFER RENWICK
DART AEROSPACE LTD
1270 ABERDEEN STREET

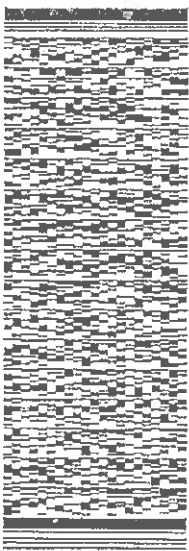
HAWKESBURY ON K6A1K7
(613) 632-3336
REF: REF-ART - F20193582
DEPT:

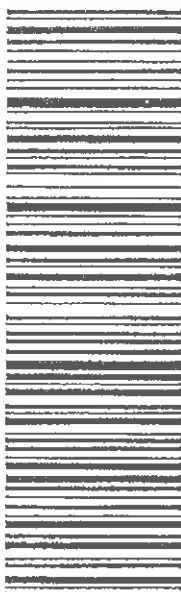
(CA)
567J3IE9E705A2

TRK# 7759 5619 2719
0430

INTL PRIORITY
PMI

V9 YMXA
K6A 1K7
ON-CA YMX





After printing this label:
CONSIGNEE COPY - PLEASE PLACE IN FRONT OF POUCH
1. Fold the printed page along the horizontal line.
2. Place label in shipping pouch and affix it to your shipment.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

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The Warsaw Convention, as amended, will then govern and in most cases limit FedEx's liability for loss, delay of, or damage to your shipment. The Warsaw Convention, as amended, limits FedEx's liability. For example in the U.S. liability is limited to \$9.07 per pound (205 per kilogram), unless a higher value for carriage is declared as described below and you pay any applicable supplementary charges. The interpretation and operation of the Warsaw Convention's liability limits may vary in each country/territory. There are no specific stopping places which are agreed to and FedEx reserves the right to route the shipment in any way FedEx deems appropriate. **ROAD TRANSPORT NOTICE.** Shipments transported solely by road to or from a country/territory which is a party to the Warsaw Convention or the Contract for the International Carriage of Goods by Road (the "CMR") are subject to the terms and conditions of the CMR, notwithstanding any other provision of this Air Waybill to the contrary. For those shipments transported solely by road, if a conflict arises between the provisions of the CMR and this Air Waybill, the terms of the CMR shall prevail. **LIMITATION OF LIABILITY.** If not governed by the Warsaw Convention, the CMR, or other international treaties, laws, other government regulations, orders, or requirements, FedEx's maximum liability for damage, loss, delay, shortage, mis-delivery, non-delivery, misinformation or failure to provide information in connection with your shipment is limited by this Agreement and as set out in the terms and conditions of the contract of carriage. Please refer to the contract of carriage set forth in the applicable FedEx Service Guide or its equivalent to determine the contractual limitation. FedEx does not provide cargo liability or all-risk insurance, but you may pay an additional charge for each additional U.S. \$100 (or equivalent local currency for the country/territory of origin) of declared value for carriage. If a higher value for carriage is declared and the additional charge is paid, FedEx's maximum liability will be the lesser of the declared value for carriage or your actual damages. **LIABILITIES NOT ASSUMED. IN ANY EVENT, FEDEX WON'T BE LIABLE FOR ANY DAMAGES, WHETHER DIRECT, INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL IN EXCESS OF THE DECLARED VALUE FOR CARRIAGE (INCLUDING BUT NOT LIMITED TO LOSS OF INCOME OR PROFITS) OR THE ACTUAL VALUE OF THE SHIPMENT, IF LOWER, WHETHER OR NOT FEDEX HAD ANY KNOWLEDGE THAT SUCH DAMAGES MIGHT BE INCURRED.** FedEx won't be liable for your acts or omissions, including but not limited to incorrect declaration of cargo, improper or insufficient packaging, securing, marking or addressing of the shipment, or for the acts or omissions of the recipient or anyone else with an interest in the shipment or violations by any party of the terms of this agreement. FedEx won't be liable for damage, loss, delay, shortage, mis-delivery, non-delivery, misinformation or failure to provide information in connection with shipments of cash, currency or other prohibited items or in instances beyond our control, such as acts of God, perils of the air, weather conditions, mechanical delays, acts of public enemies, war, strike, civil commotion, or acts or omissions of public authorities (including customs and health officials) with actual or apparent authority. **NO WARRANTY.** We make no warranties, express or implied. **CLAIMS FOR LOSS, DAMAGE OR DELAY. ALL CLAIMS MUST BE MADE IN WRITING AND WITHIN STRICT TIME LIMITS. SEE OUR TARIFF, APPLICABLE FEDEX SERVICE GUIDE, OR STANDARD CONDITIONS OF CARRIAGE FOR DETAILS.** The Warsaw Convention provides specific written claims procedures for damage, delay or non-delivery of your shipment. Moreover, the interpretation and operation of the Warsaw Convention's claims provisions may vary in each country/territory. Refer to the Convention to determine the claims period for your shipment. The right to damages against us shall be extinguished unless an action is brought within two years, as set forth in the Convention. FedEx is not obligated to act on any claim until all transportation charges have been paid. The claim amount may not be deducted from the transportation charges. If the recipient accepts the shipment without noting any damage on the delivery record, FedEx will assume the shipment was delivered in good condition. In order for us to consider a claim for damage, the contents, original shipping carton and packing must be made available to us for inspection. **MANDATORY LAW.** Insofar as any provision contained or referred to in this Air Waybill may be contrary to any applicable international treaties, laws, government regulations, orders or requirements such provisions shall remain in effect as a part of our agreement to the extent that it is not overridden. The invalidity or unenforceability of any provisions shall not affect any other part of this Air Waybill. Unless otherwise indicated, **FEDERAL EXPRESS CORPORATION, 2005 Corporate Avenue, Memphis, TN 38132, USA,** is the first carrier of this shipment. Email address located at www.fedex.com.

Work Order OH 199890

Customer RA756 / order 18494

Number of Wires 2

Date 2019-9-05

Serial Number 13899-02

Number of Cycles	Load (Lbs.)	Action	Pass/Fail
1	15,000	Check for Conductivity against all wires.	
1	15,000	Check all wires for grounding against swivel body.	
1	10,000	Check for Conductivity against all wires.	
1	10,000	Check all wires for grounding against swivel body.	
1	5,000	Check for Conductivity against all wires.	
1	5,000	Check all wires for grounding against swivel body.	
1	0	Check for Conductivity against all wires.	
1	0	Check all wires for grounding against swivel body.	

Test Conducted By: Michel Lalonde
Technician

Signature: 
QC 5 Small FAB / QA

Submit



DATE: 2019/09/05

N.D.T

MODEL: SWA15A

S/N : 13899-02

Job : OH199890

RA.# 756

ORDER : 18494

P/N	DESCRIPTION	QUANTITY
SWA15A-200	UPPER END	1
SWA15A-100	LOWER END	1
SWA10A-300	BEARING HOUSING	1
SWA10A-500	SEMI-RING	2
SWA10A-600	COLLAR	1

ALAIN PATRY

TOTAL : 6



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

POHB044484



Supplier: SKY002-VC
Skyservice
6120 Midfield Road
Mississauga
ON
L5P 1B1 Canada
Phone: 905-678-5636
Fax: 905-678-5841

Attention: Jenne, Heather

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: POHB044484
PO Date: 9/12/19
Due Date: 9/17/19
Purchase Order Revision:
Revision Date:
Ship-To Contact: Guerin, Kimberley
Phone: 613-632-5200 Ext: 298
kguerin@dartaero.com

Via: Ground
Pymt Terms: Net 30
Freight Terms:
Special Comments:

Items

Line Item	Job	Part	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	OH199340	C3-OH	C-Series Remote Hook 3,000 lbs Lift Capacity LIQUID PENETRANT INSPECTION AS PER QSI 038	Firmed XI	-	9/17/19	1 pcs	0 pcs	1 pcs	\$178.00/pcs	\$178.00
2	OH199890	SWA15A- 2-OH	Electric Swivel 15,000 lb Safe Work Load (6,818 kg) LIQUID PENETRANT INSPECTION AS PER QSI 038	Firmed XI	-	9/17/19	1 pcs	0 pcs	1 pcs	\$178.00/pcs	\$178.00
Grand Total:											\$356.00

Order Notes

Procurement Quality Clauses
A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)

A022 Apical Processing
A024 process certifications
A026 certification of material conformance

A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 9/13/19 11:17 AM Dart.Guerin.Kimberley



skyservice

Work Order Traveier
Sky Service F.B.O. Inc.

10105 Ryan Avenue, Dorval, Quebec, H9P 1A2

TCCA AMO 53-89 / EASA 145.7142 / BDA AMO 385

WO #: MWO41731	Customer: Dart Aerospace Ltd.	Dept: NDT YUL	Reference: POHB044484
Descr:	PN:	S/N:	Qty: 1
Make:	Model:	Reg:	A/C S/N:
TSN:	CSN:	TSO:	
Task: UNSCHEDULED			Sequence: 1

Work Required:

CARRY OUT NDT ON:

1 C-SERIES REMOTE HOOK (13 PCS) , P/N# C3-OH , J/S# OH199340

1 ELECTRIC SWIVEL (6 PCS) P/N# SWA 15A-2-OH , J/S# OH199890

Action Taken:				Date:	Initial/Stamp:	
LPI & MPI C/O IAW ASTM E-1417 AND ASTM E-1444M-16 ***NO CRACK FOUND*** PEN , ZL-37 MPO#: 23206 CLEANER SKC-S MPO15030, EMU.(ZR-10B, MPO23451), DEV. MPO15030, UV LIGHT M-20142 MAGBENCH S/N 208123 CAL DUE: 25-SEP-2019 POWDER 14A BATCH# MPO13600 CARRIER II BATCH# MPO22794 BLACK LIGHT-M20186				SEP 13 2019	(313) S DOT-APP 310 53-89 RC	
RECEIVED SEP 16 2019 DART AEROSPACE LTD				DAS 81 9-89		
Description	Location	P/N	Qty	Batch	S/N Off	S/N On

I certified that the maintenance described above has been performed in accordance with the applicable standard of airworthiness.

Signature:	ACA/SCA Stamp DOT-APP 310 53-89	Date: SEP 13 2019
Name: RICARDO VARGAS		

SKYM002-1 REV 5 Apr/17

P/N	Revision	Drawing Specified Wire	Acceptable Alternate Wire
C2	2	MIL-C-27500 11-14416	N/A
C3	2	MIL-C-27500 11-14417	N/A
C10	3	3/14 SJTOW	Texcan 01121-734A5 or 01004-08-047
C15	2	3/14 SJTOW	Texcan 01121-734A5 or 01004-08-047
C20	C	3/14 SJTOW	Texcan 01121-734A5 or 01004-08-047
C45	C	3/14 SJTOW	Texcan 01121-734A5 or 01004-08-047
C60	C	3/14 SJTOW	Texcan 01121-734A5 or 01004-08-047
C250	C	3/14 SJTOW	Texcan 01121-734A5 or 01004-08-047
SWA3-2	3	3/14 SJTOW	Texcan 01121-734A5 or 01004-08-047
SWA3-3	3	3/14 SJTOW	Texcan 01121-734A5 or 01004-08-047
SWA3-4	3	EL 414-ARTIC 4/14	Texcan 01121-744A5
SWA6A-2	E	Texcan 01121-724AM	N/A
SWA6A-3	E	Texcan 01121-734A5 or 01004-08-047	N/A
SWA6A-4	E	Texcan 01121-744A5	N/A
SWA6A-6	E	Texcan 04121-764A5	N/A
SWA6A-8	E	Texcan 12701-08-014 or McMaster 7081K38	N/A
SWA10A-2	3	3/14 SJTOW	Texcan 01121-734A5 or 01004-08-047
SWA10A-3	3	3/14 SJTOW	Texcan 01121-734A5 or 01004-08-047
SWA10A-4	3	EL 414 ARTIC 4/14	Texcan 01121-744A5
SWA10A-6	3	EL 616 ARTIC	Texcan 04121-764A5
SWA10A-8	3	Polar Wire 30806	Texcan 12701-08-014 or McMaster 7081K38
SWA15A-2	1	3/14 SJTOW	Texcan 01121-734A5 or 01004-08-047
SWA15A-3	1	3/14 SJTOW	Texcan 01121-734A5 or 01004-08-047
SWA15A-4	1	EL 414 ARTIC 4/14	Texcan 01121-744A5
SWA15A-6	1	EL 616 ARTIC	Texcan 04121-764A5
SWA15A-8	1	EL 816 ARTIC	Texcan 12701-08-014 or McMaster 7081K38
SAW25A-2	1	3/14 SJTOW	Texcan 01121-734A5 or 01004-08-047
SAW25A-3	1	3/14 SJTOW	Texcan 01121-734A5 or 01004-08-047
SAW25A-4	1	EL 414 ARTIC 4/14	Texcan 01121-744A5
SAW25A-6	1	EL 616 ARTIC	Texcan 04121-764A5
SAW25A-8	1	EL 816 ARTIC	Texcan 12701-08-014 or McMaster 7081K38

Work Order OH 199890

Customer RA756 / ORD 18494

Number of Wires 2

Date 2019/09/27

Serial Number 13899-02

Number of Cycles	Load (Lbs.)	Action	Pass/Fail
1	15,000	Check for Conductivity against all wires.	Pass
1	15,000	Check all wires for grounding against swivel body.	Pass
1	10,000	Check for Conductivity against all wires.	Pass
1	10,000	Check all wires for grounding against swivel body.	Pass
1	5,000	Check for Conductivity against all wires.	Pass
1	5,000	Check all wires for grounding against swivel body.	Pass
1	0	Check for Conductivity against all wires.	Pass
1	0	Check all wires for grounding against swivel body.	Pass

Test Conducted By: Michel Delonde
Technician

Signature: Sylvie Bouche
QC 5 Small FAB / QA

Submit

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: <u>04199890</u> Part No. <u>SWA### Swivels</u> NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐								
Date: <u>2019/09/27</u>		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval <i>M. Lee</i> Feb 01, 2018					
Description Work Order Deviation - Use a combination of heatshrink tubing and RTV Silicone to create a watertight seal around all electrical connections. - Use a D2728-1 Placard in place of the laser engraved Dart logo				Disposition These deviations are acceptable to carry out on the following swivels: - SWA3 - SWA6A - SWA10A - SWA15A - SWA25A - PSWA25A - H440-0280002 <i>M. Lee</i> There is no impact on fit, form or function.				Completed By <u>A. PATRY</u> Lead hand / Supervisor Approval Verification DAS 30 9-89 SEP 27 2019				
								QC / QA Coordinator Approval DAS 68 9-89 SEP 27 2019				
Root Cause <table border="0" style="width:100%;"> <tr> <td style="width:50%;"> Environment ☐ Design ☒ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ </td> <td style="width:50%;"> No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☒ Process Improvement ☒ Manufacturing Process ☐ Past Due ☐ </td> </tr> </table>				Environment ☐ Design ☒ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☒ Process Improvement ☒ Manufacturing Process ☐ Past Due ☐	FAULT CATEGORY <table border="0" style="width:100%;"> <tr> <td style="width:33%;"> Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ </td> <td style="width:33%;"> Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ </td> <td style="width:33%;"> Power Loss/Surge ☐ Follo/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ </td> </tr> </table>				Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Follo/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐
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OTHER : _____												

Entered: _____ Date: _____

WORK ORDER NON-CONFORMANCE / ROUTE UPDATE



NCR No.

Route update only ☐

Job: 04199890

Part No. SWA 15A-2-04

DISPOSITION

Rework ☐
Scrap ☐
Use-as-is ☐

DEPARTMENT/PROCESS

Skid-tube ☐
Machining ☐
Large Fab ☐

Cross tube ☐
Small Fab ☐
Finishing ☐

Eng. (Non-AW) ☒
Prod. Eng. Coord. ☐
Rec/Store/Packaging ☐

Engineering ☐
Water Jet ☐
Supplier ☐
Quality ☐

Date: 2019/09/27

Sequence #:

QTY Affected :

Description Work Order Deviation

Disposition

When assembling a SWA 15A-3 it was noticed that the clamping compression of the SWA 10A-700 into the 3 conductor is not adequate

this deviation is acceptable
the clamping force has been verified by Alain Patry

was
SWA 10A-700 used in place of the standard SWA 10A-700

use HEAT SINK 7856 K77 B#

the fit form and function of the part will be as originally intended

MRB (QSI042)

DAS 51
9-89 19/06/27

Completed By

A. PATRY

Lead hand / Supervisor

DAS 30
9-89 SEP 27 2019

QC / QA Coordinator

89
DAS

SEP 27 2019

Root Cause

Operator ☐
Manufacturing Process ☐
Equip/Tooling ☐
Handling/Preservation ☐
Material ☐
Product Improvement ☐
Process Improvement ☐
Human Factors ☐

Pressure/Forced ☐
Bending ☐
Crushing ☐
Cracks ☐
Crimp/Kink/Ripple/Wave/Twist ☐
Marks/Chatter ☐
Mislabeled ☐

FAULT CATEGORY

Contamination ☐
Misaligned/off center ☐
BOM/Route ☐
Broken/Damage/Defect ☐
Incomplete/Unclear Instructions ☐
Drill Holes ☐
Fit/Function ☐

Power Loss/Surge ☐
Folio/Program ☐
Grain Direction ☐
Weld ☐
Wrong Stock Pulled ☐
Out of Sequence ☐
Off-set/Set-up ☐

Positioned Wrong ☐
Outside Tolerance ☐
Drawing ☐
Finish ☐
Part Lost/Missing ☐
Misread ☐

Other/Details:

Entered: TR Date: Oct 23/19



NCR No. 9-7508 **WORK ORDER NON-CONFORMANCE / ROUTE UPDATE**

Route update only ☐

Job: <u>04199890</u> Part No. <u>C series hooks and SWA Swivels</u>		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☒		DEPARTMENT/PROCESS Skid-tube ☐ Cross tube ☐ Eng. (Non-AW) ☒ Engineering ☐ Machining ☐ Small Fab ☐ Prod. Eng. Coord. ☐ Water Jet ☐ Large Fab ☐ Finishing ☐ Rec/Store/Packaging ☐ Supplier ☐ Quality ☐																																	
Date: <u>2019/09/27</u>		Sequence #:		QTY Affected: <u>1</u>			MRB (QSI042) May, 9 2019 <i>M. Lee</i>																														
Description Work Order Deviation The electrical wires listed under "Acceptable Alternate Wire" on the attached sheet are acceptable to use in place of the "Drawing Specified Wire"				Disposition This deviation is acceptable. No change to fit form or function. The job route must specify the wire that is called out on the drawing The inventory P/N must reflect the same P/N that was received from a vendor				Completed By <u>A. PATRY</u> Lead hand / Supervisor DAS 30 9-89 SEP 27 2019																													
Root Cause Operator ☐ Manufacturing Process ☐ Equip/Tooling ☐ Handling/Preservation ☐ Material ☐ Product Improvement ☒ Process Improvement ☐ Human Factors ☐		FAULT CATEGORY <table border="0"><tr><td>☐ Pressure/Forced</td><td>☐ Contamination</td><td>☐ Power Loss/Surge</td><td>☐ Positioned Wrong</td></tr><tr><td>☐ Bending</td><td>☐ Misaligned/off center</td><td>☐ Folio/Program</td><td>☐ Outside Tolerance</td></tr><tr><td>☐ Crushing</td><td>☐ BOM/Route</td><td>☐ Grain Direction</td><td>☒ Drawing</td></tr><tr><td>☐ Cracks</td><td>☐ Broken/Damage/Defect</td><td>☐ Weld</td><td>☐ Finish</td></tr><tr><td>☐ Crimp/Kink/Ripple/Wave/Twist</td><td>☐ Incomplete/Unclear Instructions</td><td>☐ Wrong Stock Pulled</td><td>☐ Part Lost/Missing</td></tr><tr><td>☐ Marks/Chatter</td><td>☐ Drill Holes</td><td>☐ Out of Sequence</td><td>☐ Misread</td></tr><tr><td>☐ Mislabeled</td><td>☐ Fit/Function</td><td>☐ Off-set/Set-up</td><td></td></tr></table>								☐ Pressure/Forced	☐ Contamination	☐ Power Loss/Surge	☐ Positioned Wrong	☐ Bending	☐ Misaligned/off center	☐ Folio/Program	☐ Outside Tolerance	☐ Crushing	☐ BOM/Route	☐ Grain Direction	☒ Drawing	☐ Cracks	☐ Broken/Damage/Defect	☐ Weld	☐ Finish	☐ Crimp/Kink/Ripple/Wave/Twist	☐ Incomplete/Unclear Instructions	☐ Wrong Stock Pulled	☐ Part Lost/Missing	☐ Marks/Chatter	☐ Drill Holes	☐ Out of Sequence	☐ Misread	☐ Mislabeled	☐ Fit/Function	☐ Off-set/Set-up	
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